THE JOURNAL OF HEREDITY

AN ILLUSTRATED BI-MONTHLY PUBLICATION DEVOTED TO
PLANT BREEDING, ANIMAL BREEDING AND EUGENICS

PUBLISHED BY THE
AMERICAN GENETIC ASSOCIATION
WASHINGTON, D. C.

VOLUME XLV

WASHINGTON, D. C.
1954

Copyright 1954
by the
AMERICAN GENETIC ASSOCIATION

Index to Volume XLV

Journal of Heredity, 1954

A

Aerial Transport of Fertilized Mammalian Ova, M. C. Chang and W. G. R. Marden, 75.

African Violet Genetics, Sheldon C. Reed, 225.

Agitans, a New Mutation in the House Mouse with Neurological Effects, Gustavo Hoecker, *et al.*, 10.

Anatomy of the Heterochromatin. Data on the Physical Distance Between Breakage Point and Affected Locus in a V-Type Position Effect, William K. Baker, 65.

Anderson, V. Elving, Clinical Genetics (Rev.), 284.

Animal Genetics:

Basic Aspects of Radiation Effects on Living Systems (Rev.), 58.

Cattle: hereditary female sterility in Holstein-Friesian, 142.

Diptera: banded polytene chromosomes in ovarian nurse cells, 259.

Drosophila: variegation at the peach locus, 65; banding patterns of giant chromosomes, 119; electron microscopy of salivary gland chromosomes, 135; lethal polyploid, 289.

Fowl: spermatogenesis, 79; chicken-pheasant hybrid, 183; hairy, abnormal plumage in the turkey, 197; Poultry Breeding (Rev.), 14.

Fundamentals of Biology (Rev.), 18.

Goat: genetics of the British Toggenburg breed, 129.

Horse: Arabian genetic history in United States, 95.

Housefly: resistance to DDT, 177.

Inbreeding and relationship coefficients: procedures for calculating, 92.

Mice: agitans, a neurological mutation, 10; pearl, a coat and eye color mutation, 19; weight and litter size, 35; genetic correlation — selection for weight and tail-length, 42; sterile, obese females, 51; obese male sterility corrected by dietary restriction, 56; sinus arythmia, 73; relation of gain in weight to litter size, 88; furless, 115; retinal degeneration, 123; pygmy gene, 143; ragged, coat texture mutant, 151; tortoise shell, 158; influence of genetic background on gene expression, 235; leukemia (Exc.), 297.

Mink: genetics of white phenotypes, 173.

Quick method for tracing lineage, 288.

Rabbit: aerial transport of fertilized ova, 75; sound-induced seizures, 279.

Sheep: effects of inbreeding, 89.

Swine: chromosome numbers, 21, 104; selection for black-spotting, 215.

Anstey, T. H. and John F. Moore, Inheritance of Glossy Foliage and Cream Petals in Green Sprouting Broccoli, 39.

Antonitis, Joseph J. *et al.*, Sound-Induced Seizures in Rabbits, 279.

Apple, see *Plant Genetics.*

Asker, A. A. and M. T. Ragab, Effects of Inbreeding on a Flock of Ossimi Sheep, 89.

Asmundson, V. S., Modern Poultry Breeding (Rev.), 14.

B

Baker, William K., Anatomy of the Heterochromatin. Data on the Physical Distance Between Breakage Point and Affected Locus in a V-Type Position Effect, 65.

Banded Polytene Chromosomes in the Ovarian Nurse Cells of Adult Diptera, Harrison D. Stalker, 259.

Bernstein, Marianne E., Studies on the Human Sex Ratio. 4. Evidence of Genetic Variation of the Primary Sex Ratio in Man, 59.

Bishop, C. J., Mutations in Apples Induced by X-Radiation, 99.

Bogart, Ralph *et al.*, The Resistance to DDT by Houseflies. Some Genetic and Environmental Factors, 177.

Books Reviewed:

Harbaugh, M. J. and A. L. Goodrich (Editors), Fundamentals of Biology, 18.

Jull, Morley A., Poultry Breeding, 14.

Nickson, James J. (Editor), Symposium on Radiobiology — The Basic Aspects of Radiation Effects on Living Systems, 58.

Osvald, Hugo and Ewert Aberg (Editors), Proceedings of the Seventh International Botanical Congress, 272.

Schrader, Franz, Mitosis—The Movement of Chromosomes in Cell Division, 50.

Sorsby, Arnold, (Editor), Clinical Genetics, 284.

Wiener, Alexander S., Rh-Hr Blood Types. Applications in Clinical and Legal Medicine and Anthropology, 251; An Rh-Hr Syllabus, 252.

Borthwick, H. A. and George M. Darrow, Fasciation in the Strawberry. Inheritance and the Relationship of Photoperiodism, 299.

Bowen, C. C. and G. B. Wilson, A Comparison of the Effects of Several Antimitotic Agents, 3.

Brant, John W. A. and Earl H. Newcomer, Spermatogenesis in the Domestic Fowl, 79.

Brink, R. A. and Irwin M. Greenblatt, Diffuse, a Pattern Gene in *Zea mays* Epistatic to Red Pericarp, 47.

Broccoli, see *Plant Genetics.*
Brumbaugh, Robert S., Plato's Genetic Theory, 191.
Butler, L., Two New Mutants in the Tomato, Propeller and Rosette, 25.

C

Carter, T. C. and Rita J. S. Phillips, Ragged, a Semidominant Coat Texture Mutant in the House Mouse, 151.
Castorbean, see *Plant Genetics.*
Cattle, see *Animal Genetics.*
Chang, M. C. and W. G. R. Marden, The Aerial Transport of Fertilized Mammalian Ova, 75.
Chestnut Breeding, Techniques and Results: I. Breeding Material and Pollination Techniques, Russell B. Clapper, 107; II. Inheritance of Characters, Breeding for Vigor, and Mutations, Russell B. Clapper, 201.
Chromosome Numbers and Experimental Polyploidy in the Pig, Leo Sachs, 21.
Clapper, Russell B., Chestnut Breeding, Techniques and Results: I. Breeding Material and Pollination Techniques, 107; II. Inheritance of Characters, Breeding for Vigor, and Mutations, 201.
Clayton, E. E., Identifying Disease Resistance Suited to Interspecific Transfer, 273.
Clinical Genetics (Rev.), V. Elving Anderson, 284.
Cohen, Carl *et al.*, Sound-Induced Seizures in Rabbits, 279.
Colchicine, see *Plant Genetics.*
Colchiploidy in Grapes, Haig Dermen, 159.
Color Genotypes of the Greenhouse Snapdragon, *Antirrhinum majus* L., W. J. Haney, 146.
Comments on the Paper "Photographs of Living Chromosomes", M. M. Rhoades, 28.
Comparison of the Effects of Several Antimitotic Agents, C. C. Bowen and G. B. Wilson, 3.
Computation of Inbreeding and Relationship Coefficients in Populations with a Relatively Small Number of Different Male Ancestors, Mogens Plum, 92.
Cotton, see *Plant Genetics.*
Crary, Dorcas D. *et al.*, Sound-Induced Seizures in Rabbits, 279.
Cucumber, see *Plant Genetics.*
Cytogenetic Analysis of a Spontaneous Pre-Meiotic Mutation in Maize, E. J. Dollinger and W. R. Singleton, 223.

D

Darrow, George M. and H. A. Borthwick, Fasciation in the Strawberry. Inheritance and the Relationship of Photoperiodism, 299.
Davis, Elmo W., Rapid Identification of Recessive-White Onion Bulbs by Use of Ammonia Fumes, 122.
Dermen, Haig, Colchiploidy in Grapes 159.
Dickie, Margaret M.: The Tortoise Shell House Mouse, 158; and Priscilla W. Lane, Fertile, Obese Male Mice. Relative Sterility in Obese Males Corrected by Dietary Restriction, 56.
Diffuse, a Pattern Gene in *Zea mays* Epistatic to Red Pericarp, R. A. Brink and Irwin M. Greenblatt, 47.
Dilemma of the Rh-Hr Blood Tpyes (Rev.), Philip Levine, 251.
Diptera, see *Animal Genetics.*
Dollinger, E. J. and W. R. Singleton, Cytogenetic Analysis of a Spontaneous Pre-Meiotic Mutation in Maize, 223.
Drosophila, see *Animal Genetics.*

E

Effectiveness of Selection for Extension of Black-Spotting in Beltsville No. 1 Swine, H. O. Hetzer, 215.
Effects of Inbreeding on a Flock of Ossimi Sheep, M. T. Ragab and A. A. Asker, 89.
Electron Microscopy of Salivary Gland Chromosomes, G. Yasuzumi and Keiko Ito, 135.
Extrinsic Influences on Leukemia, (Exc.), 297.

F

Falconer, D. S., Validity of the Theory of Genetic Correlation, 42.
Fasciation in the Strawberry. Inheritance and the Relationship of Photoperiodism. George M. Darrow and H. A. Borthwick, 299.
Father Adam and the Races of Man, Conway Zirkle, 29.
Fekete, Elizabeth, Gain in Weight of Pregnant Mice in Relation to Litter Size, 88.
Fertile, Obese Male Mice. Relative Sterility in Obese Males Corrected by Dietary Restriction, Priscilla W. Lane and Margaret M. Dickie, 56.
Fowl, see *Animal Genetics.*
Franzke, C. J. *et al.*, The Nature of Chromatin Changes of Colchicine-Induced Variants in Sorghum, 255.
Fruit and Leaf Characters in Summer Squash. The Interrelationship of Striped-fruit and Mottled-leaf, John Scarchuk, 295.
Fundamentals of Biology (Rev.), Morris C. Leikind, 18.
Further Evidence Concerning Chromosome Numbers in the Pig, Leo Sachs, 104.

G

Gain in Weight of Pregnant Mice in Relation to Litter Size, Elizabeth Fekete, 88.
Gangstad, Edward O., *et al.*, Interspecific and Intervarietal Hybridization in *Sansevieria*, 69.
Gates, Allen and Meredith N. Runner, Sterile, Obese Mothers, 51.
Gazder, P. J., The Genetic History of the Arabian Horse in the United States, 95.

Gene Expression as Influenced by Genetic Background As Illustrated by Ventral Tubercles on Cervical Vertebrae of Mice, Wallace McNutt, 235.
Genetic Analysis of the British Toggenburg Breed of Goats, I. L. Mason, 129.
Genetic Basis of Some White Phenotypes in the Ranch Mink, Richard M. Shackelford and William D. Moore, 173.
Genetic History of the Arabian Horse in the United States, P. J. Gazder, 95.
Genetics of a New Hair Deficiency, Furless, In the House Mouse, Earl L. Green, 115.
Gloor, Hans and Hansrudolf Staiger, Lethal-Polyploid—A Polyploid Gene in *Drosophila hydei*, 289.
Goat, see *Animal Genetics.*
Grape, see *Plant Genetics.*
Green, Earl L., The Genetics of a New Hair Deficiency, Furless, In the House Mouse, 115.
Greenblatt, Irwin M. and R. A. Brink, Diffuse, a Pattern Gene in *Zea mays* Epistatic to Red Pericarp, 47.
Gregor Mendel's Autobiography, Introduction by Mrs. Hugo Iltis, 231.
Growth and Reproductive Rates of Mice Produced by Intercrossing Inbreds and Outbreds of Three Size Groups, E. J. Warwick and W. L. Lewis, 35.

H

Hadley, H. H. and D. Donald Poole, Haploidy in Castorbeans, 285.
Hairy, a Gene Causing Abnormal Plumage in the Turkey, J. Robert Smyth, Jr., 197.
Haney, W. J., Color Genotypes of the Greenhouse Snapdragon, *Antirrhinum majus* L., 146.
Haploidy in Castorbeans. D. Donald Poole and H. H. Hadley, 285.
Harpstead, D. D. *et al.*, The Nature of Chromatin Changes of Colchicine-Induced Variants in Sorghum, 255.
Hereditary Female Sterility in Holstein-Friesian Cattle, James F. Kidwell, *et al.*, 142.
Hetzer, H. O., Effectiveness of Selection for Extension of Black-Spotting in Beltsville No. 1 Swine, 215.
Hoecker, Gustavo, *et al.*, Agitans, a New Mutation in the House Mouse with Neurological Effects, 10.
Horse, see *Animal Genetics.*
Housefly, see *Animal Genetics.*

Human Genetics and Eugenics:

Clinical Genetics (Rev.), 284.
Heterozygous deleterious mutations, 17.
Plato's Genetic theory, 191.
Rh-Hr Blood Types (Rev.), 251.
Sex ratio: genetic variation of the primary sex ratio in man, 59.
Skin color: anthropological notes, 29; Liturgical color or race crossing? 182.
Hunter, A. W. S., Tetraploidy in Vegetative Shoots of the Apple Induced by the Use of Colchicine, 15.
Hybridization of the Pheasant and Fowl, William E. Shaklee and C. W. Knox, 183.
Huskins, Charles Leonard, (Obit.), G. B. Wilson and Merton Love, 249.

I

Identical Twins Sought for Study of Multiple Sclerosis, 133.
Identifying Disease Resistance Suited to Interspecific Transfer, E. E. Clayton, 273.
Iltis, Mrs. Hugo, Gregor Mendel's Autobiography (Introduction), 231.
Increase in Frequency of a Deleterious Recessive Gene in Mice from a Population under Selection, E. J. Warwick and W. L. Lewis, 143.
Information Sought on the Effects on Science of Present Visa Policies, 304.
Inheritance of Cup Leaf in Cotton, C. F. Lewis, 127.
Inheritance of Glossy Foliage and Cream Petals in Green Sprouting Broccoli, T. H. Anstey and John F. Moore, 39.
Inherited Retinal Degeneration in the Mouse, Katharine Tansley, 123.
Interspecific and Intervarietal Hybridization in *Sansevieria*, James B. Patę, *et al.*, 69.
Interspecific Hybridization between Muskmelon and Cucumber, Paul G. Smith and B. R. Venkat Ram, 24.
Ito, Keiko and G. Yasuzumi, Electron Microscopy of Salivary Gland Chromosomes, 135.
Ivanoff, S. S., Measuring Shipping Qualities of Watermelons According to Snowden's Method, 155.

J

Johnston, E. F., *et al.*, The Resistance to DDT by Houseflies. Some Genetic and Environmental Factors, 177.
Joyner, J. Frank, *et al.*, Interspecific and Intervarietal Hybridization in *Sansevieria*, 69.

K

Keeler, Clyde and Amelia Vicari, Sinus Arythmia, a Hereditary Characteristic in the House Mouse, 73.
Kidwell, James F. *et al.*, Hereditary Female Sterility in Holstein-Friesian Cattle, 142.
Knox, C. W. and William E. Shaklee, Hybridization of the Pheasant and Fowl, 183.

L

Lane, Priscilla W. and Margaret M. Dickie, Fertile, Obese Male Mice. Relative Sterility in Obese Males Corrected by Dietary Restriction, 56.
Leikind, Morris C., Fundamentals of Biology (Rev.), 18.

Lethal-Polyploid—A Polyploid Gene in *Drosophila hydei*, Hans Gloor and Hansrudolf Staiger, 289.
Levine, Philip: The Dilemma of the Rh-Hr Blood Types (Rev.), 251; An Rh-Hr Syllabus (Rev.), 252.
Lewis, C. F., The Inheritance of Cup Leaf in Cotton, 127.
Lewis, W. L. and E. J. Warwick: Growth and Reproductive Rates of Mice Produced by Intercrossing Inbreds and Outbreds of Three Size Groups, 35; Increase in Frequency of a Deleterious Recessive Gene in Mice from a Population under Selection, 143.
Lindquist, A. W., *et al.*, The Resistance to DDT by Houseflies. Some Genetic and Environmental Factors, 177.
Liturgical Color or Race Crossing?, A. L. Pickens, 182.
Love, Merton and G. B. Wilson, Charles Leonard Huskins (Obit.), 249.

M

Maize, see *Plant Genetics*.
Marden, W. G. R. and M. C. Chang, The Aerial Transport of Fertilized Mammalian Ova, 75.
Markovic, Simon, *et al.*, Agitans, a New Mutation in the House Mouse with Neurological Effects, 10.
Martinez, Alfonso, *et al.*, Agitans, a New Mutation in the House Mouse with Neurological Effects, 10.
Mason, I. L., A Genetic Analysis of the British Toggenburg Breed of Goats, 129.
McCormick, John A., *et al.*, Hereditary Female Sterility in Holstein-Friesian Cattle, 142.
McNutt, Wallace, Gene Expression as Influenced by Genetic Background As Illustrated by Ventral Tubercles on Cervical Vertebrae of Mice, 235.
Measuring Shipping Qualities of Watermelons According to Snowden's Method, S. S. Ivanoff, 155.
Mendel, Gregor, Autobiography (Translation), 231.
Method of Keeping a Flexible Pedigree Chart, Norio Mitsuoka, 288.
Mice, see *Animal Genetics*.
Microsporogenesis in Some Commercial Potato Varieties, M. S. Swaminathan, 265.
Mink, see *Animal Genetics*.
Mitsuoka, Norio, A Method of Keeping a Flexible Pedigree Chart, 288.
Modern Poultry Breeding (Rev.), V. S. Asmundson, 14.
Moore, John F. and T. H. Anstey, Inheritance of Glossy Foliage and Cream Petals in Green Sprouting Broccoli, 39.
Moore, William D. and Richard M. Shackelford, Genetic Basis of Some White Phenotypes in the Ranch Mink, 173.
Morgan, D. T., Jr.: A New Edition of Schrader's "Mitosis" (Rev.), 50; Proceedings of the Seventh International Botanical Congress (Rev.), 272.
Muskmelon, see *Plant Genetics*.
Mutations in Apples Induced by X-Radiation, C. J. Bishop, 99.

N

Nature of Chromatin Changes of Colchicine-Induced Variants in Sorghum, D. D. Harpstead, *et al.*, 255.
Newcomer, Earl H. and John W. A. Brant, Spermatogenesis in the Domestic Fowl, 79
New Edition of Schrader's "Mitosis" (Rev.), D. T. Morgan, Jr., 50.
New Tomato Seedling Characters and Their Linkage Relationships, Richard W. Robinson and Charles M. Rick, 241.

O

One Man's Influence: A Tribute to William Ernest Castle, Elizabeth S. Russell, 211.
Onion, see *Plants Genetics*.
On the Rediscovery of Mendel's Work by Hugo DeVries, Th. J. Stomps, 293.
Our Greatest Human Resource: How it is Wasted (Exc.), Alan T. Waterman, 277.

P

Pate, James B., *et al.*, Interspecific and Intervarietal Hybridization in *Sansevieria*, 69.
Pearl, A New Spontaneous Coat and Eye Color Mutation in the House Mouse, Patricia Ann Sarvella, 19.
Pheasant, see *Animal Genetics*, Fowl.
Phillips, Rita J. S. and T. C. Carter, Ragged, a Semidominant Coat Texture Mutant in the House Mouse, 151.
Pickens, A. L., Liturgical Color or Race Crossing? 182.
Pig, see *Animal Genetics*, Swine.
Pisum sativum, see *Plant Genetics*.
Pizzaro, Olga, *et al.*, Agitans, a New Mutation in the House Mouse with Neurological Effects, 10.

Plant Genetics:

Antibiotics: cytological effects, 3.
Apple: tetraploid, 15; X-ray induced mutations, 99.
Broccoli: glossy foliage and cream petal mutants, 39.
Castorbean: haploid, 285.
Chestnut: breeding, techniques and results, 107, 201.
Colchicine: comparison of effects with other antimitotic agents, 3; induced tetraploidy in the apple, 15; induced polyploidy in grapes, 159; chromatin changes in sorghum, 255.
Cotton: cup leaf, 127.
Cucumber—muskmelon hybrids, 24.
Fundamentals of Biology (Rev.), 18.
Grape: colchicine induced polyploidy, 159.

Maize: diffuse pattern gene, 47; cytogenetics of a pre-meiotic mutation, 223.
Mitosis—the Movement of Chromosomes in Cell Division (Rev.), 50.
Muskmelon-cucumber hybrids, 24.
Onion: detection of recessive white by use of ammonia fumes, 122.
Pisum sativum: effects of antimitotic agents, 3.
Potato: microsporogenesis, 265.
Sansevieria: hybrids, 69.
Snapdragon: color genotypes, 146.
Sorghum: chromatin changes of colchicine-induced variants, 255.
Squash: striped-fruit and mottled-leaf, 295.
Strawberry: fasciation, 299.
Tobacco: interspecific transfer of disease resistant varieties, 273.
Tomato: Propeller and Rosette mutants, 25; seedling characters and linkage relationships, 241.
Violet: genetics of African violets, 225.
Watermelon: measuring shipping qualities, 155.
Plato's Genetic Theory, Robert S. Brumbaugh, 191.
Plum, Mogens, Computation of Inbreeding and Relationship Coefficients in Populations with a Relatively Small Number of Different Male Ancestors, 92.
Poole, D. Donald and H. H. Hadley, Haploidy in Castorbeans, 285.
Potato, see *Plant Genetics.*
Proceedings of the Seventh International Botanical Congress (Rev.), D. T. Morgan, Jr., 272.

R

Rabbit, see *Animal Genetics.*
Radiation Effects on Living Systems (Rev.), W. Ralph Singleton, 58.
Ragab, M. T. and A. A. Asker, Effects of Inbreeding on a Flock of Ossimi Sheep, 89.
Ragged, a Semidominant Coat Texture Mutant in the House Mouse, T. C. Carter and Rita J. S. Phillips, 151.
Ram, B. R. Venkat, and Paul G. Smith, Interspecific Hybridization between Muskmelon and Cucumber, 24.
Rapid Identification of Recessive-White Onion Bulbs by Use of Ammonia Fumes, Elmo W. Davis, 122.
Reed, Sheldon C.: A Test for Heterozygous Deleterious Recessives, 17; African Violet Genetics, 225.
Resistance to DDT by Houseflies. Some Genetic and Environmental Factors, E. F. Johnston, *et al.*, 177.
Rh-Hr Syllabus (Rev.), Philip Levine, 252.
Rhoades, M. M., Comments on the Paper "Photographs of Living Chromosomes," 28.
Rick, Charles M. and Richard W. Robinson, New Tomato Seedling Characters and Their Linkage Relationships, 241.
Robinson, Richard W. and Charles M. Rick, New Tomato Seedling Characters and Their Linkage Relationships, 241.
Ross, J. G. *et al.*, The Nature of Chromatin Changes of Colchicine-Induced Variants in Sorghum, 255.
Runner, Meredith N. and Allen Gates, Sterile, Obese Mothers, 51.
Russell, Elizabeth S., One Man's Influence: A Tribute to William Ernest Castle, 211.

S

Sachs, Leo: Chromosome Numbers and Experimental Polyploidy in the Pig, 21; Further Evidence Concerning Chromosome Numbers in the Pig, 104.
Sansevieria, see *Plant Genetics.*
Sarvella, Patricia Ann, Pearl, A New Spontaneous Coat and Eye Color Mutation in the House Mouse, 19.
Sawin, Paul B. *et al.*, Sound-Induced Seizures in Rabbits, 279.
Scarchuk, John, Fruit and Leaf Characters in Summer Squash. The Interrelationship of Striped-fruit and Mottled-leaf, 295.
Sengün, Atif, Variability of the Banding Patterns of Giant Chromosomes, 119.
Shackelford, Richard M. and William D. Moore, Genetic Basis of Some White Phenotypes in the Ranch Mink, 173.
Shaklee, William E. and C. W. Knox, Hybridization of the Pheasant and Fowl, 183.
Sheep, see *Animal Genetics.*
Singleton, W. Ralph: Radiation Effects on Living Systems (Rev.), 58; and E. J. Dollinger, Cytogenetic Analysis of a Spontaneous Pre-Meiotic Mutation in Maize, 223.
Sinus Arythmia, a Hereditary Characteristic in the House Mouse, Clyde Keeler and Amelia Vicari, 73.
Smith, Paul G. and B. R. Venkat Ram, Interspecific Hybridization between Muskmelon and Cucumber, 24.
Smyth, J. Robert, Jr., Hairy, a Gene Causing Abnormal Plumage in the Turkey, 197.
Snapdragon, see *Plant Genetics.*
Sorghum, see *Plant Genetics.*
Sound-Induced Seizures in Rabbits, Joseph J. Antonitis *et al.*, 279.
Spermatogenesis in the Domestic Fowl, Earl H. Newcomer and John W. A. Brant, 79.
Squash, see *Plant Genetics.*
Staiger, Hansrudolf and Hans Gloor, Lethal-Polyploid—A Polyploid Gene in *Drosophila hydei,* 289.
Stalker, Harrison D., Banded Polytene Chromosomes in the Ovarian Nurse Cells of Adult Diptera, 259.
Sterile, Obese Mothers, Meredith N. Runner and Allen Gates, 51.
Stomps, Th. J., On the Rediscovery of Mendel's Work by Hugo DeVries, 293.
Strawberry, see *Plant Genetics.*
Studies on the Human Sex Ratio. 4. Evidence of Genetic Variation of the Primary Sex Ratio in Man, Marianne E. Bernstein, 59.

Summer Research Awards for College Faculty Members, 230.
Swaminathan, M. S., Microsporogenesis in Some Commercial Potato Varieties, 265.

T

Tansley, Katharine, An Inherited Retinal Degeneration in the Mouse, 123.
Test for Heterozygous Deleterious Recessives, Sheldon C. Reed, 17.
Tetraploidy in Vegetative Shoots of the Apple Induced by the Use of Colchicine, A. W. S. Hunter, 15.
Tobacco, see *Plant Genetics.*
Tomato, see *Plant Genetics.*
Tortoise Shell House Mouse, Margaret M. Dickie, 158.
Turkey, see *Animal Genetics,* Fowl.
Two New Mutants in the Tomato, Propeller and Rosette, L. Butler, 25.

V

Validity of the Theory of Genetic Correlation, D. S. Falconer, 42.
Variability of the Banding Patterns of Giant Chromosomes, Atif Sengün, 119.
Vicari, Amelia and Clyde Keeler, Sinus Arythmia, a Hereditary Characteristic in the House Mouse, 73.
Violet, see *Plant Genetics.*

W

Walker, LeGrand *et al.*, Hereditary Female Sterility in Holstein-Friesian Cattle, 142.
Warwick, E. J. and W. L. Lewis: Growth and Reproductive Rates of Mice Produced by Intercrossing Inbreds and Outbreds of Three Size Groups, 35; Increase in Frequency of a Deleterious Recessive Gene in Mice from a Population under Selection, 143.
Waterman, Alan T., Our Greatest Human Resource: How it is Wasted (Exc.), 277.
Watermelon, see *Plant Genetics.*
Wilson, G. B.: and C. C. Bowen, A Comparison of the Effects of Several Antimitotic Agents, 3; and Merton Love, Charles Leonard Huskins (Obit.), 249.

Y, Z

Yasuzumi, G. and Keiko Ito, Electron Microscopy of Salivary Gland Chromosomes, 135.
Zirkle, Conway, Father Adam and the Races of Man, 29.